

February 27, 1998  
Ref. No.: EOS/ETS-0298-025

National Aeronautics and  
Space Administration  
Goddard Space Flight Center  
Greenbelt, Maryland 20771

Attention: Mr. Willie Fuller  
Code 581  
Building 32, Room S212D

Subject: Contract No.: NAS5-31000  
Subcontract No.: HQ001057  
EOS SLA 9 (Work Element 3.2.3 in SLA)  
EOSDIS Test System (ETS) Simulated CCSDS Telemetry Generator  
(SCTGEN) -- Delivery of the Release 1.3.0 Software

Dear Mr. Fuller:

The CNMOS contractor is pleased to deliver Release 1.3.0 of the Simulated CCSDS Telemetry Generator (SCTGEN) of the ETS. Release 1.3.0 of SCTGEN provides closure of six (6) Discrepancy Reports (DRs) providing support for the AM-1 mission. The list of resolved DRs is included in Attachment E.

This delivery package contains 12 attachments as listed below, describing the delivery contents, build instructions, resolved and unresolved Discrepancy Reports (DRs), system limitations and workarounds, requirements compliance matrix, and release history. A completed Mission Systems Configuration Management (MSCM) form is included in Attachment L.

If you have any questions concerning this delivery, please call me at 301-794-1548.

Sincerely yours,

Rajendra Shah  
CNMOS EOS Project Manager

Delivery Package Reviewed by:

Walter Hall  
CNMOS EOS Product Assurance Officer

EOSDIS Test System (ETS) Simulated CCSDS Telemetry Generator  
Delivery of the Release 1.3.0 Software  
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The following attachments contain the details of the SCTGEN software.

- Attachment A - contains the description of the delivery contents for this release
- Attachment B - describes the operational changes
- Attachment C - contains the instructions to build and install the software
- Attachment D - contains the special operating instructions
- Attachment E - contains a list of the resolved DRs
- Attachment F - contains a list of the unresolved DRs
- Attachment G - contains the matrix of requirements addressed by this release
- Attachment H - contains the known system limitations
- Attachment I - contains the release history summary matrix
- Attachment J - contains a list of the delivery contents
- Attachment K - contains documentation references
- Attachment L - contains the Mission Systems Configuration Management (MSCM) form

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Task File

## **Attachment A - Description of Delivery Contents**

This delivery of SCTGEN Release 1.3.0 consists of the SCTGUI Release 1.3.0 software and the SCTGEN Release 1.3.0 software. The software consists of COTS and custom software, and is being delivered on 4 mm magnetic tape compatible with HP UNIX and SUN Solaris platforms.

## **Attachment B - Summary of Operational Changes**

There are no operational changes specifically attributable to SCTGEN Release 1.3.0. Several DRs were resolved as detailed elsewhere in this delivery package, however, their resolutions did not affect the operation of SCTGEN.

**NOTE:** Scripts developed to create PDS/EDS and EDU/RBP files using previous versions of SCTGEN will have to be modified because they are not compatible with the new version, SCTGEN Release 1.3.0. The script changes are documented in Attachment D.

## **Attachment C - Release 1.3.0 Build Instructions**

SCTGEN consists of two elements: (1) the SCTGEN Graphical User Interface, referred to as SCTGUI; and (2) the SCTGEN Application Software, referred to as SCTGEN. Instructions for building SCTGEN Release 1.3.0 are contained in the following sections.

### **C.1 Uncompress Delivery Tape**

1. Insert the 4mm tape into the tape drive.
2. Navigate to the desired destination directory.
3. Type “tar -xv”. The compressed tar file will be copied to the directory.
4. Type “uncompress ETS\_SCTGEN130.tar.Z”. ETS\_SCTGEN130.tar.Z is changed to ETS\_SCTGEN130.tar
5. Type “tar -xvf ETS\_SCTGEN130.tar”. The tar file will be expanded with all of the files it contains being copied to the directory.

### **C.2 Install SCTGEN Graphical User Interface**

The following paragraphs outline the sequence of steps to install the SCTGUI. It can be run on SUN or HP platforms. The particular environment for each of the two versions of the SCTGUI should be as follows:

- SunOS Generic Version 4.3 including C Compiler for SUN UNIX
- HP OS Version 9.0 including C Compiler for HP UNIX

#### **C.2.1 Installing SCTGUI**

The delivery media contains a file called RELEASE.NOTES, which provides guidance and related information for installing Release 1.3.0. The following sequence of steps are required to install the SCTGUI.

1. # extract sctgui source from the sctgui1.3.tar file
2. # the sctgui1.3.tar.Z file is located in the rel\_sctgui1.3 directory, change to the rel\_sctgui1.3 directory
3. Type in 'cd rel\_sctgui1.3'
4. # uncompress the sctgui1.3.tar.Z file
5. Type in 'uncompress sctgui1.3.tar.Z'
6. # extract the sctgui source
7. Type in 'tar xvf sctgui1.3.tar '
8. # make local copy of sctgui startup script
9. Type in 'cp rel\_sctgui1.3/bin/run\_sctgui run\_sctgui'
10. # edit local version of sctgui startup script
11. # see comments in script file. In addition, you may need to modify last line in the startup script to contain the pathname for the wish file.

### C.2.2 Installing TCL Software

This software is public domain. You do not need to install it if your system already has it. The software is provided with this release on the delivery media as a courtesy to the user. To install it in a system directory such as /usr/local/bin, you will need to have root privileges.

1. # extract tcl source from tcl7.6.tar file
2. # the tcl7.6.tar file is located in the rel\_sctgui1.3 directory, change to the rel\_sctgui1.3 directory
3. Type in 'cd rel\_sctgui1.3'
4. # uncompress the tcl7.6.tar.Z file
5. Type in 'uncompress tcl7.6.tar.Z'
6. # extract the tcl source
7. Type in 'tar xvf tcl7.6.tar'
8. # compile and install tcl software
9. # follow directions in tcl7.6/unix/README file to run ./configure and makefile. If the make fails then you will have to personalize the Makefile for your site. First check the "porting.notes" file to see if there are hints for compiling on your system. If you need to modify Makefile, there are comments at the beginning of it that describe the things you might want to change and how to change them.

### C.2.3 Installing TK Software

This software is public domain. You do not need to install it if your system already has it. The software is provided with this release on the delivery media as a courtesy to the user. To install it in a system directory such as /usr/local/bin, you will need to have root privileges.

1. # extract tk source from the tk4.2.tar file
2. # the tk4.2.tar file is located in the rel\_sctgui1.3 directory, change to the rel\_sctgui1.3 directory
3. Type in 'cd rel\_sctgui1.3'
4. # uncompress the tk4.2.tar.Z file
5. Type in 'uncompress tk4.2.tar.Z'
6. # extract the tk source
7. Type in 'tar xvf tk4.2.tar'
8. # compile and install tk software
9. # follow directions in tk4.2/unix/README file to run ./configure and makefile. If the make fails then you will have to personalize the Makefile for your site. First check the "porting.notes" file to see if there are hints for compiling on your system. If you need to modify Makefile, there are comments at the beginning of it that describe the things you might want to change and how to change them.

## **C.1 Install SCTGEN Application Software**

The following paragraphs outline the sequence of steps to install and, if necessary, build the SCTGEN Application Software. Note: A copy of the 'sctgen' application program is included with this delivery of SCTGEN.

### **C.1.1 Installing SCTGEN Application Software**

The following sequences of steps are required to install SCTGEN.

1. # extract the SCTGEN application software from the sctgen1.3.tar file
2. # the sctgen1.3.tar.Z file is located in the rel\_sctgen1.3 directory, change to the rel\_sctgen1.3 directory.
3. Type in 'cd rel\_sctgen1.3'
4. # uncompress the sctgen1.3.tar.Z file
5. uncompress sctgen1.3.tar.Z
6. # extract the sctgen application software
7. Type in 'tar xvf sctgen1.3.tar'
8. # the 'sctgen' application program is located in the bin directory

### **C.1.2 Building SCTGEN Application Software**

The following steps are used to build the 'sctgen' application program (SCTGEN executable).

#### **C.1.2.1 SUN UNIX Version**

The environment for the SUN UNIX version should be as follows:

- Wind River's Multi compiler Version 1.8.7 (development & cross compiler tool)
- SunOS Generic Version 4.3 with C++ Compiler.

#### **C.1.2.2 Build Steps**

1. Type in 'cd rel\_sctgen1.3' to get to the sctgen directory.
2. Type in 'cd work'

This changes the directory to /work directory which contains intermediate files such as objects, infs, a template repository, and libraries. They are byproducts of the build process.

Do the following for each library:     ranlib libtiger.a  
  ranlib libtrs.a  
  ranlib libgpl.a

You need only to do this once.

To do a complete clean build, delete the following files \*.o, \*.inf, reposit/\*, sctgen. Do NOT delete any other files.

3. Type in 'multi'

This invokes the Multi builder. (Note: The path to the Multi compiler may need to be specified.)

4. Press the "build" button. (Not the menu pulldown. The button is in the middle.)

Multi will compile and link all modules. You will see two warning messages repeated numerous times. These messages are normal and are not cause for alarm. One will say that "dummy" or pos are not used. The other message reports:

```
CC[ptlink] warning: ##### template definition file not found #####
```

The "build" pulldown menu has two useful options. *Cleanup* erases all object and information files from the work directory. *Build* executes all unconditional compiles and links all products.

5. Press the "quit" button to exit multi.

6. mv 'sctgen' to the ../bin directory

The application software has one executable, 'sctgen,' for the creation of data files and data products. The new 'sctgen' and executable is in the work directory. Put 'sctgen' in the 'bin' directory.

7. To verify that 'sctgen' executes, type 'sctgen' at the command line with no arguments. A syntax message and the version number will be printed.

#### **C.1.2.4 HP UNIX Version**

The environment for the HP UNIX Version should be as follows:

- CenterLine's compiler Version 2.1 (development & cross compiler tool)
- HP OS Version 9.0 includes C Compiler.

#### **C.1.2.5 Build Steps**

The CenterLine CC C++ compiler should be located in /space/CenterLine/bin/

If elsewhere, edit bETS.cmd and change the symbol assignment.

1. Type in 'cd hp\_version' to get to the 'hp version' Directory

2. Type in 'cd work'

This changes the directory to /work directory which contains intermediate files such as objects, infs, a template repository, and libraries. They are byproducts of the build process. To do a complete clean build, delete the following files \*.o, \*.inf, reposit/\*, sctgen,. Do NOT delete any other files.

3. Type in 'source bETS.cmd '

This invokes the CenterLine compiler and builder and the build process.

4. mv 'sctgen' to the ../bin directory

The new 'sctgen' and executable is in the work directory. Place 'sctgen' in the 'bin' directory.

5. To verify that 'sctgen' executes, type 'sctgen' at the command line with no arguments. A syntax message and the version number will be printed.

## Attachment D - Special Operating Instructions

The following user instructions are provided to assist in the set up of the SCTGEN GUI startup script and in running SCTGEN. Guidance is provided to users who may want to use scripts created with an earlier version of SCTGEN. Brief user instructions are also supplied for the 'merlin' utility, which is provided to users for the first time with this release. In addition, procedures are provided to support the simulation of data from multiple spacecraft contact sessions. Standard SCTGEN operating procedures are documented in the SCTGEN User's Guide.

### **D.1 Start-Up Script**

The 'etsp' executable has been combined with the 'sctgen' executable for SCTGEN Release 1.3.0.

1. Modify the BASE variable in the SCTGUI script as follows:  
BASE = \$HOME/sctgui (\$HOME defines your sctgui home directory. sctgui refers to the directory on the user system that contains the SCTGEN GUI software.)
2. Comment out the SUN or HP executables, depending on the system SCTGEN is targeted to run on. For example:

```
# FILE_SCTGEN=$BASE/bin/hp.sctgen1.3
FILE_SCTGEN=$BASE/bin/sun.sctgen1.3
# FILE_ETSP=$BASE/bin/hp.sctgen1.3
FILE_ETSP=$BASE/bin/sun.sctgen1.3
.
.
```

*Note: The FILE\_SCTGEN or FILE\_ETSP variables may still be specified as in previous SCTGEN releases.*

3. The Window Manager on the work-station will have an icon called 'run\_sctgui' that will start the SCTGEN GUI. In the absence of a Window Manager, enter **run\_sctgui**, to start the SCTGEN GUI from the command line.

*Note: The release startup script includes the path names for the SCTGEN GUI and application executables.*

### **D.2 Script Modifications for Release 1.3.0**

#### PDS/EDS Script Modifications

The following modification must be made to PDS/EDS script files created with a prior

version of SCTGEN, in order for the scripts to be compatible with SCTGEN Release 1.3.0.

1. For a PDS script the line *main c(pds)* must have the *c(pds)* portion removed. The modified line should contain only *main*. For example, the modified PDS script file will look like the following:

```
###  
### Script File  
### Generated by SCTGUI 1.2  
###  
### Thu Aug 21 19:27:20 GMT 1997  
###  
  
main  
.  
.
```

1. For an EDS script the line *main c(eds)* must have the *c(eds)* portion removed. The modified line should contain only *main*. The modified EDS script file will look like the PDS example provided in step 1.

#### RBP/EDU Script Modifications

The following modification must be made to Rate Buffered Path Service (RBP) and EDOS Data Unit (EDU) script files created with a prior version of SCTGEN, in order for the scripts to be compatible with SCTGEN Release 1.3.0.

1. For an EDU script the line *main c(edu)* must have the *c(edu)* portion removed. The modified line should contain only *main*. For example, the modified EDU script file will look like the following:

```
###  
### Script File  
### Generated by SCTGUI 1.2  
###  
### Thu Aug 21 19:27:20 GMT 1997  
###  
  
main  
.  
.
```

For a RBP script, the line *main c(rbp)* must have the *c(rbp)* portion removed. The

modified line should contain only *main*. The modified RBP script file will look like the EDU script example provided in step 1 above.

### **D.3 The 'merlin' Utility**

'merlin' is a useful, offline utility, which is being provided to users with SCTGEN Release 1.3.0. 'merlin' reads a file of CCSDS packets and returns a list of all the APIDs contained in the packetfile along with the number of packets per APID. 'merlin' also separates the CCSDS packets by APID and creates a packetfile called apXXXXXX.pkt for each APID, where XXXXX is the APID in hexadecimal.

'merlin' is located in the ../rel\_sctgen1.3/bin directory.

To use 'merlin' enter the following at the command line:

➤ merlin filename

### **D.4 Simulation of Data from Multiple TDRSS Sessions**

ETS0183 was written against SCTGEN because the tool did not provide the capability to simulate multiple TDRSS or other spacecraft contact sessions (SCS). Although, there is not complete support for this function through the SCTGEN GUI, there is some support through the use of scripts and with the GUI. Therefore, the DR was closed. Procedures are documented here to suggest methods for creating both CADU and PDS/EDS test data files that simulate data from multiple spacecraft contact sessions.

#### Simulated CADUs

SCTGEN views a multiple-session scenario as separate individual scenarios. Multiple-session data can be simulated simply by running multiple SCTGEN scripts with each script defining the desired APIDs and timetags. SCTGEN will generate individual data files that can be used separately, or concatenated together into a single file using the UNIX command "cat".

#### Simulated PDS/EDS

The Construction Record for data sets spanning multiple TDRSS sessions can be simulated using multiple SCS Start/Stop times, which can be added using the SCTGEN GUI when building PDS and EDS test data sets.

## Attachment E – Resolved Discrepancy Reports

The DRs are listed by DR Number, Status, Severity, Subsystem name, and short description related IDR. The DR can be access via the Internet at address <http://iree.gsfc.nasa.gov/ddts/> (directly) or from the ESDIS Integration and Test Web page (<http://ESDIS.gsfc.nasa.gov/integ/integ.html>). The following table represents a summary of the closed DRs, a full description of each DR follows the summary table.

### Summary of Closed Discrepancy Reports

<b>Critical(1)</b>	<b>Urgent(2)</b>	<b>Routine(3)</b>
<b>0</b>	<b>3</b>	<b>3</b>

### Status Definitions

N - New Resolution	A - Assigned Analysis	R - Assigned
D - Delivered	V - Verified	C - Closed
W - Withdrawn Duplicate	P - Postponed	X -

DR #	Stat	Sev	Subsystem	Description	Related IDR
ETS0173	C	3	SCTGEN	Event not deleted from list.	ETS0347
ETS0179	C	2	SCTGEN	Blank Service Definition Menu	ETS0449
ETS0183	C	2	SCTGEN	SCTGEN GUI does not support multiple sessions	
ETS0184	C	3	SCTGEN	PN field does not appear in script	ETS0445
ETS0258	C	3	SCTGEN	Mux Information Not Cleared	ETS0466
ETS0268	C	2	SCTGEN	Sony Tape Error On SUN	

Total number DRs closed = 6

**DR: ETS0173            Related NCR: ETS0347            Submitted: 970522**  
**Status: CLOSED            Class: ETS            Closed: 980220**

**Title: Event not deleted from list.**

\*\*\*\*\* Problem (Added 970522 by hzavaleta) \*\*\*\*\*

The DELEVENT function clears the system event from the Event List window but does not delete it from the system. The user receives an error message stating "Event already exists" when the user attempts to add the event.

\*\*\*\*\* Analysis (Modified 980219 by enoone) \*\*\*\*\*

The event named "ALL" cannot be deleted because it is used by certain script statements.

**DR: ETS0179            Related NCR: ETS0449            Submitted: 970522**  
**Status: CLOSED            Class: ETS            Closed: 980220**

**Title: Blank Service Definition Menu**

\*\*\*\*\* Problem (Added 970522 by hzavaleta) \*\*\*\*\*

Selecting path or bitstream service from frame definition menu panel results in a blank service definition menu panel being displayed. Previously the service definition menu panel contained a PDU header length field and inserted PDU header yes/no field.

\*\*\*\*\* Analysis (Modified 980219 by enoone) \*\*\*\*\*

The PDU option was removed because user should not set it. Now the PDU option has been restored.

**DR: ETS0183            Related NCR:            Submitted: 970522**  
**Status: CLOSED            Class: ETS            Closed: 980220**

**Title: SCTGEN GUI does not support multiple sessions**

\*\*\*\*\* Problem (Added 970522 by awalters) \*\*\*\*\*

SCTGEN does not support multiple TDRSS Service Sessions.

\*\*\*\*\* Analysis (Modified 980219 by enoone) \*\*\*\*\*

It is possible using SCTGEN to simulate multiple TDRSS sessions. The procedures for creating CADU and PDS/EDS test data files simulating multiple spacecraft contact sessions are detailed in the SCTGEN R1.3.0 delivery package.

**DR: ETS0184            Related NCR: ETS0445            Submitted: 970527**  
**Status: CLOSED            Class: ETS            Closed: 980220**

**Title: PN field does not appear in script**

\*\*\*\*\* Problem (Added 970527 by hzavaleta) \*\*\*\*\*

Select yes for PN encode. The PN encode() field does not appear in the script.

\*\*\*\*\* Analysis (Modified 980219 by enoone) \*\*\*\*\*

Code was added to generate the PNencode argument in the script.

**DR: ETS0258            Related NCR: ETS0466            Submitted: 970625**  
**Status: CLOSED            Class: ETS            Closed: 980220**

**Title: Mux Information Not Cleared**

\*\*\*\*\* Problem (Added 970625 by hzavaleta) \*\*\*\*\*

Frame multiplexer panel displays MUX information from previous CADU scenarios. User selects clear to remove old information, then is able to enter new scenario MUX pattern.

\*\*\*\*\* Analysis (Modified 980219 by enoone) \*\*\*\*\*

Code was modified to clear previous MUX information when menu selection Scenario->Clear is selected.

**DR: ETS0268            Related NCR:            Submitted: 970827**  
**Status: CLOSED            Class: ETS            Closed: 980220**

**Title: Sony Tape Error On SUN**

\*\*\*\*\* Problem (Added 970827 by awalters) \*\*\*\*\*

Attempting to run SCTGEN script to write CADUs from SUN workstation to SONY tape drive results in the following error "child killed:segmentation fault"

Note: this occurs only when running the 'sctgen' executable file on the SUN.

\*\*\*\*\* Analysis (Modified 980220 by ckolb) \*\*\*\*\*

The problem was corrected by relinking the SCTGEN program with the proper libraries. However, unless the SUN version is running on a platform equipped with a SONY tape system, this function will not work. The delivered configuration is SCTGEN running on the ETS HRS system, which includes an HP workstation and a SONY tape unit.

## Attachment F - Unresolved Discrepancy Reports (DR)

SCTGEN Release 1.3.0 test verification generated two new Internal Discrepancy Reports (IDRs), which have been converted to Discrepancy Reports (DRs). The DRs were entered in the ESDIS Discrepancy Report Tracking Tool (DRTT). All open SCTGEN DRs are listed in the table below by: DR Number, System/Subsystem name, Status, Severity, and Description. The DR database can be accessed via the Internet at address <http://iree.gsfc.nasa.gov/ddts/> (directly) or from the ESDIS Integration and Test home page at <http://esdis.gsfc.nasa.gov/integ/integ.html>. The following tables represent a summary of the open DRs; a full description of each DR follow the summary tables.

### Summary of Open Discrepancy Reports

<b>Critical(1)</b>	<b>Urgent(2)</b>	<b>Routine(3)</b>
<b>0</b>	<b>2</b>	<b>6</b>

#### Status Definitions

N - New	A - Assigned Analysis	R - Assigned Resolution
D - Delivered	V - Verified	C - Closed
W - Withdrawn	P - Postponed	X - Duplicate

DR #	Stat	Sev	Subsystem	Description	Related NCR
ETS0135	V	3	SCTGEN	Only AM-1 Requirements Met	ETS0320
ETS0175	A	3	SCTGEN	Data Generation Cannot Be Resumed	ETS0412
ETS0176	A	3	SCTGEN	Time Decrement Cannot Be Specified	ETS0413
ETS0177	A	3	SCTGEN	Incorrect date	ETS0414
ETS0178	A	3	SCTGEN	No quality statistics	ETS0415
ETS0180	A	2	SCTGEN	Button no longer displays Product Stream Menu	ETS0451
ETS0303	A	2	SCTGEN	TC Script Error	ETSdev0018
ETS0304	A	3	SCTGEN	Microseconds Field Always Zero	ETSdev0020

**Total records found = 8**

**DR: ETS0135            Related NCR: ETS0320            Submitted: 970228**  
**Status: ASSIGNED-VERIFY    Class: ETS            Asgnd-Verify: 000000**

**Title: Only AM-1 Requirements Met**

\*\*\*\*\* Problem (Added 970228 by jmcgarry) \*\*\*\*\*  
SCTGEN only meets EOS-AM 1 requirements for test data generation.

\*\*\*\*\* Analysis (Modified 970521 by hzavaleta) \*\*\*\*\*  
CCR will be submitted to reflect that only AM-1 is supported.

**DR: ETS0175            Related NCR: ETS0412            Submitted: 970522**  
**Status: ASSIGNED-ANALYSIS    Class: ETS**

**Title: Data Generation Cannot Be Resumed**

\*\*\*\*\* Problem (Added 970522 by hzavaleta) \*\*\*\*\*  
User cannot resume data generations as requirements indicate.

\*\*\*\*\* Analysis \*\*\*\*\*  
Awaiting analysis.

**DR: ETS0176            Related NCR: ETS0413            Submitted: 970522**  
**Status: ASSIGNED-ANALYSIS    Class: ETS**

**Title: Time Decrement Cannot Be Specified**

\*\*\*\*\* Problem (Added 970522 by hzavaleta) \*\*\*\*\*  
User cannot specify time decrement for any source identified by any combination of SCID, VCID, and APID.

\*\*\*\*\* Analysis \*\*\*\*\*  
Awaiting analysis.

**DR: ETS0177            Related NCR: ETS0414            Submitted: 970522**  
**Status: ASSIGNED-ANALYSIS    Class: ETS**

**Title: Incorrect date**

\*\*\*\*\* Problem (Added 970522 by hzavaleta) \*\*\*\*\*  
Simulated test data streams do not have a default date of January 1, 1958

\*\*\*\*\* Analysis \*\*\*\*\*  
Awaiting analysis.

**DR: ETS0178            Related NCR: ETS0415            Submitted: 970522**  
**Status: ASSIGNED-ANALYSIS    Class: ETS**

**Title: No quality statistics**

\*\*\*\*\* Problem (Added 970522 by hzavaleta) \*\*\*\*\*

Accounting and quality statistics are not specified in EOS AM spacecraft requirements document listed in Section 1.4 of the ETS Requirements Specification, Volume 5, SCTGEN

\*\*\*\*\* Analysis \*\*\*\*\*

Awaiting analysis.

**DR: ETS0180            Related NCR: ETS0451            Submitted: 970522**  
**Status: ASSIGNED-ANALYSIS    Class: ETS**

**Title: Button no longer displays Product Stream Menu**

\*\*\*\*\* Problem (Added 970522 by hzavaleta) \*\*\*\*\*

Selecting product type (i.e.CADU) and then the scenario button no longer results in the Product Stream Menu Panel being displayed. Workaround select product then new option from the scenario menu bar.

\*\*\*\*\* Analysis \*\*\*\*\*

Awaiting analysis.

**DR: ETS0303            Related NCR: ETSdev0018            Submitted: 980210**  
**Status: ASSIGNED-ANALYSIS    Class: ETS                            Asgnd-Analysis: 980224**

**Title: TC Script Error**

\*\*\*\*\* Problem (Added 980210 by awalters) \*\*\*\*\*

Created TC script using default information. Received the following error message when running script:  
Tiger Error:  
Stream physical cannot produce idle units [error 19]

Note: Do not receive this error when running the same script using SCTGEN v1.2.

**DR: ETS0304            Related NCR: ETSdev0020            Submitted: 980217**  
**Status: ASSIGNED-ANALYSIS    Class: ETS                            Asgnd-Analysis: 980224**

**Title: Microseconds Field Always Zero**

\*\*\*\*\* Problem (Added 980217 by awalters) \*\*\*\*\*

The microseconds field in the packet secondary header is always zero. The specified non-zero value appears in the script, but not in the data.

In previous versions the default value for the microseconds field was zero, but the user was able to specify a value for the microseconds.

**Attachment G - Requirements Compliance Matrix**

**SCTGEN COMPLIANCE MATRIX**

This section contains changes to the compliance matrix effective with SCTGEN Release 1.3.0. Compliance for all other requirements did not change from what has been specified in previous SCTGEN deliveries.

<b>Level 4 Req. Spec</b>	<b>Requirements Description</b>	<b>Compliance <u>F</u>ull/<u>P</u>artial/<u>N</u>one</b>	<b>Comment (Please provide comment if Partial or None)</b>
V5-3.2.3.7	SCTGEN shall have the capability to sequentially simulate multiple TDRSS service sessions.	<i>F</i>	ETS0183 was closed with this release. Procedures are documented in Attachment D, Section D.4.

## Attachment H - System Limitations

The following system limitations apply to SCTGEN Release 1.3.0. Possible workarounds, when applicable, are noted. DRs not found in this table have no known workarounds.

DR No.	Release	Severity	Problem Description	Possible Workaround
ETS0175	1.0	Routine	User cannot halt and resume test data generation as requirements indicate.	The User can halt the generation, but on resumption the data generation is started from the beginning. However the script and scenario definition can be halted and resumed.
ETS0303	1.3.0	Urgent	Created Telecommand (TC) script using default information. Received the following error message when running script: Tiger Error: Stream physical cannot produce idle units [error 19] Note: Do not receive this error when running the same script using SCTGEN v1.2.	The problem is caused by the SCTGEN GUI placing the field, <i>lastunit(F)</i> , in the TC script. The SCTGEN application program expects the field <i>lastunit(I)</i> . The workaround is to manually add <i>lastunit(F)</i> in the appropriate place in the script, as shown here:  Stream.cmdblk.tc_block.region.data inStream(physical) integral(1) - Eerrors(1) Ercomposition(1) <b>lastunit(F)</b>
ETS0304	1.3.0	Routine	The microseconds field in the packet secondary header is always zero. The specified non-zero value appears in the script, but not in the data. In previous versions the default value for the microseconds field was zero, but the user was able to specify a value for the microseconds.	SCTGEN Release 1.3.0 places a zero in the microsecond field in every CCSDS packet regardless of the current value. This feature is controlled by a new field in the tcEDOS time stream: <i>zeroMicro(1or0:1)</i> . 1=zero microseconds field regardless of current value. 0=do not zero microsecond field. Default =1  To create a non-zero microsecond field in the CCSDS packet secondary header, manually enter the field <i>zeroMicro(0)</i> in the appropriate place in the script, as shown here:  stream.pkt.ap00xx.region.2hdr type(tcEDOS) day(14567) - msOfDay(186000) microOfMs(300) msStep(10) <b>zeroMicro(0)</b> - microStep(25)

**Attachment I - Release History Summary Matrix**

The attached summary matrix reflects the SCTGEN Release 1.3.0 Delivery.

### Release History Summary Matrix

<b>Release History Summary Matrix</b>										
SYSTEM:	SCTGEN						PAGE	1 OF 1		
RELEASE NUMBER		1.0	1.1.0	1.2.0	1.3.0					
DELIVERY DATE		3/3/97	5/27/97	8/25/97	2/27/98					
CONFIGURATION ITEM	CI NO.									
SCTGEN GUI	5.1	1.0	1.1.0	1.2.0	1.3.0					
SCTGEN Application Software	5.2	1.0	1.1.0	1.2.0	1.3.0					

## Attachment J - Listing of Delivery Contents

Delivery is on one 4 mm magnetic tape with all software in “tar” format. The contents of the tar tape are listed below. Sections J.1 and J.2 contain the file name listings for the SCTGEN GUI and SCTGEN Application Software, respectively. The tcl7.6.tar and tk4.2.tar files are not expanded here. This software is public domain. It is provided with this release on the delivery media as a courtesy to the user, in case it is not installed on the user’s host system.

```
rel_sctgen1.3:
total 5530
-rw-rw-rw- 1 combotst lzp    2802259 Feb  6 14:56      sctgen1.3.tar.Z
```

```
rel_sctgui1.3:
total 20704
-rw-rw-rw- 1 combotst lzp      2168 Feb 23 10:33      RELEASE.NOTES
-rw-rw-rw- 1 combotst lzp  2967147 Feb 23 10:59      sctgui1.3.tar.Z
-rw-rw-rw- 1 combotst lzp  1503335 Feb 23 10:33      tcl7.6.tar.Z
-rw-rw-rw- 1 combotst lzp  6000523 Feb 23 10:33      tk4.2.tar.Z
```

### J.1 SCTGEN GUI Software Release 1.3.0

CI 5.1

```

rwxrwxr-x  4871/279      0    Feb  3 11:18 1998  ./
rwxrwxr-x  4871/2791     0    Feb  3 11:18 1998  ./source/
rwxrwxr-x  4871/2791     0    Feb  3 11:18 1998  ./source/bitmaps/
rw-rw-r--  4871/2791    1208  Sep  3 17:02 1996  ./source/bitmaps/nasa.bmp
rw-rw-r--  4871/2791     890  Oct  8 12:16 1996  ./source/bitmaps/blank.bmp
rwxrwxr-x  4871/2791     0    Feb 11 17:14 1998  ./source/tcl/
rwxrwxr-x  4871/2791     0    Feb  3 11:18 1998  ./source/tcl/save/
rw-rw-r--  4871/2791    3341  Oct  1 09:37 1996  ./source/tcl/save/procs_FVIEW.tcl
rw-rw-r--  4871/2791    2190  Nov 13 20:28 1996  ./source/tcl/save/procREGION.tcl
rw-rw-r--  4871/2791    5446  Nov 18 11:16 1996  ./source/tcl/save/procTIGER.tcl
rw-rw-r--  4871/2791   31322  Feb 10 13:40 1998  ./source/tcl/save/winSCRIPT.tcl
rw-rw-r--  4871/2791    2676  Nov  8 11:20 1996  ./source/tcl/save/procDATA.tcl
rw-rw-r--  4871/2791    6780  Mar  5 12:54 1997  ./source/tcl/save/procPATTERN.tcl
rw-rw-r--  4871/2791    6234  Nov 19 19:16 1996  ./source/tcl/save/winEVENT.tcl
rw-rw-r--  4871/2791    2214  Nov 23 19:52 1996  ./source/tcl/save/winSCENARIO.tcl
rw-rw-r--  4871/2791    6406  Oct 29 11:41 1996  ./source/tcl/save/tutorial.tcl
rw-rw-r--  4871/2791   12109  Nov  8 17:27 1996  ./source/tcl/save/globals.tcl
rw-rw-r--  4871/2791    3736  Oct 29 17:42 1996  ./source/tcl/save/procSCRIPT.tcl
rw-rw-r--  4871/2791    3847  Sep 27 08:35 1996  ./source/tcl/save/procs_FDATA.tcl
rw-rw-r--  4871/2791    1352  Sep 26 12:10 1996  ./source/tcl/save/defaultWindow.tcl
rw-rw-r--  4871/2791   22460  Feb 21 14:46 1997  ./source/tcl/save/globals.tcl.sav
rw-rw-r--  4871/2791    4415  Feb 18 11:49 1997  ./source/tcl/save/procFRAME.tcl.sav
rw-rw-r--  4871/2791    5323  Feb 18 11:52 1997  ./source/tcl/save/procPACKET.tcl.sav
rw-rw-r--  4871/2791     360  Nov 22 15:55 1996  ./source/tcl/save/scenarioTC.tcl
rw-rw-r--  4871/2791    4497  Nov 21 19:03 1996  ./source/tcl/save/winCADU.tcl.sav
rw-rw-r--  4871/2791    5699  Sep 26 13:45 1996  ./source/tcl/save/fmuxWindow.tcl
rw-rw-r--  4871/2791    4478  Mar 14 11:59 1997  ./source/tcl/save/procCADU.tcl.sav
rw-rw-r--  4871/2791    7014  Feb 13 17:13 1997  ./source/tcl/save/procPATTERN.tcl.sav
rw-rw-r--  4871/2791    7920  Mar  7 11:36 1997  ./source/tcl/save/procMUX.tcl.sav
rw-rw-r--  4871/2791   15322  Feb 12 20:43 1997  ./source/tcl/save/procDATA.tcl.sav

```

rw-rw-r--	4871/2791	3766	Mar 12 17:33 1997	./source/tcl/save/procTSEG.tcl.sav
rw-rw-r--	4871/2791	3482	Sep 16 16:20 1996	./source/tcl/save/vcWindow.tcl
rw-rw-r--	4871/2791	20337	Mar 11 13:16 1997	./source/tcl/save/procREGION.tcl.sav
rw-rw-r--	4871/2791	4119	Sep 25 15:44 1996	./source/tcl/save/fdataWindow.tcl
rw-rw-r--	4871/2791	5806	Jan 26 18:32 1997	./source/tcl/save/winOUTPUT.tcl
rw-rw-r--	4871/2791	1433	Oct 18 10:27 1996	./source/tcl/save/rangeWindow.tcl
rw-rw-r--	4871/2791	969	Oct 10 14:20 1996	./source/tcl/save/winSTATUS.tcl
rw-rw-r--	4871/2791	900	Oct 22 10:46 1996	./source/tcl/save/2hdrWindow.tcl
rw-rw-r--	4871/2791	2955	Nov 13 13:04 1996	./source/tcl/save/winREGION.tcl
rw-rw-r--	4871/2791	13262	Feb 12 19:57 1997	./source/tcl/save/procOUTPUT.tcl.sav
rw-rw-r--	4871/2791	28762	Mar 11 09:55 1997	./source/tcl/save/winSCRIPT.tcl.sav
rw-rw-r--	4871/2791	0	Feb 3 11:18 1998	./source/tcl/VERSION1.1/
rw-rw-r--	4871/2791	13035	Jul 23 12:06 1997	./source/tcl/VERSION1.1/procGUI.tcl
rw-rw-r--	4871/2791	19664	May 15 14:58 1997	./source/tcl/VERSION1.1/procREGION.tcl
rw-rw-r--	4871/2791	4596	May 15 15:02 1997	./source/tcl/VERSION1.1/winPACKET.tcl
rw-rw-r--	4871/2791	13293	May 29 17:18 1997	./source/tcl/VERSION1.1/procOUTPOUT.tcl
rw-rw-r--	4871/2791	29924	May 15 11:42 1997	./source/tcl/VERSION1.1/winSCRIPT.tcl
rw-rw-r--	4871/2791	18489	May 15 14:44 1997	./source/tcl/VERSION1.1/globals.tcl
rw-rw-r--	4871/2791	18559	May 14 18:59 1997	./source/tcl/VERSION1.1/procSCENARIO.tcl
rw-rw-r--	4871/2791	0	Feb 3 11:18 1998	./source/tcl/VERSION1.0/
rw-rw-r--	4871/2791	3347	May 15 10:48 1997	./source/tcl/VERSION1.0/procRBP.tcl
rw-rw-r--	4871/2791	18928	May 15 10:50 1997	./source/tcl/VERSION1.0/procREGION.tcl
rw-rw-r--	4871/2791	29221	May 15 10:50 1997	./source/tcl/VERSION1.0/winSCRIPT.tcl
rw-rw-r--	4871/2791	18423	May 15 10:51 1997	./source/tcl/VERSION1.0/globals.tcl
rw-rw-r--	4871/2791	18559	May 14 18:58 1997	./source/tcl/VERSION1.0/procSCENARIO.tcl
rw-rw-r--	4871/2791	4596	May 15 15:05 1997	./source/tcl/VERSION1.0/winPACKET.tcl
rw-rw-r--	4871/2791	1119	Jul 29 13:13 1997	./source/tcl/winSTREAM.tcl
rw-rw-r--	4871/2791	1100	Aug 4 14:04 1997	./source/tcl/procVC.tcl
rw-rw-r--	4871/2791	4996	Aug 20 18:30 1997	./source/tcl/winPACKET.tcl
rw-rw-r--	4871/2791	7014	Feb 11 17:18 1998	./source/tcl/winHELP.tcl
rw-rw-r--	4871/2791	31706	Feb 18 10:58 1998	./source/tcl/winSCRIPT.tcl
rw-rw-r--	4871/2791	4803	Mar 4 17:17 1997	./source/tcl/procSCTIME.tcl
rw-rw-r--	4871/2791	9874	Dec 15 20:33 1997	./source/tcl/procMUX.tcl
rw-rw-r--	4871/2791	5654	Feb 18 11:01 1998	./source/tcl/procSCTGUI.tcl
rw-rw-r--	4871/2791	5107	May 1 14:25 1997	./source/tcl/procMUXVIEW.tcl
rw-rw-r--	4871/2791	17962	Dec 16 13:45 1997	./source/tcl/procSCENARIO.tcl
rw-rw-r--	4871/2791	3906	Jul 31 17:13 1997	./source/tcl/procEDU.tcl
rw-rw-r--	4871/2791	9792	Jan 9 10:59 1998	./source/tcl/procEVENT.tcl
rw-rw-r--	4871/2791	2040	Jan 27 20:00 1997	./source/tcl/winCONFIG.tcl
rw-rw-r--	4871/2791	1113	Mar 7 16:00 1997	./source/tcl/procIDLE.tcl
rw-rw-r--	4871/2791	4548	Dec 16 13:45 1997	./source/tcl/procTC.tcl
rw-rw-r--	4871/2791	5535	Jul 31 17:06 1997	./source/tcl/procSTREAM.tcl
rw-rw-r--	4871/2791	4222	Mar 13 14:34 1997	./source/tcl/procTSEG.tcl
rw-rw-r--	4871/2791	869	Feb 3 11:13 1997	./source/tcl/procUTIL_ERR.tcl
rw-rw-r--	4871/2791	18162	Feb 20 17:48 1998	./source/tcl/globals.tcl
rw-rw-r--	4871/2791	14054	Feb 27 18:25 1997	./source/tcl/procENTRY.tcl
rw-rw-r--	4871/2791	11379	Dec 16 13:51 1997	./source/tcl/procERROR.tcl
rw-rw-r--	4871/2791	574	Nov 24 18:58 1996	./source/tcl/procDEVICE.tcl
rw-rw-r--	4871/2791	5149	Mar 11 17:43 1997	./source/tcl/procGLOBAL.tcl
rw-rw-r--	4871/2791	13353	Dec 16 13:42 1997	./source/tcl/procGUI.tcl
rw-rw-r--	4871/2791	2499	Jul 23 15:01 1997	./source/tcl/procLOG.tcl
rw-rw-r--	4871/2791	5277	Jul 31 17:11 1997	./source/tcl/procCADU.tcl
rw-rw-r--	4871/2791	948	Dec 19 14:25 1997	./source/tcl/procDEBUG.tcl
rw-rw-r--	4871/2791	3347	May 15 10:12 1997	./source/tcl/procRBP.tcl

rw-rw-r--	4871/2791	6717	Dec 22 15:19 1997	./source/tcl/procUTIL.tcl
rw-rw-r--	4871/2791	354	Jan 15 11:28 1997	./source/tcl/README
rw-rw-r--	4871/2791	4579	Mar 12 16:04 1997	./source/tcl/procEDS.tcl
rw-rw-r--	4871/2791	3688	Dec 15 20:34 1997	./source/tcl/procRANGE.tcl
rw-rw-r--	4871/2791	4822	Apr 28 22:13 1997	./source/tcl/procMUXDATA.tcl
rw-rw-r--	4871/2791	1732	Nov 21 18:41 1996	./source/tcl/winTUTORIAL.tcl
rw-rw-r--	4871/2791	11911	Feb 11 15:27 1998	./source/tcl/procOUTPUT.tcl
rw-rw-r--	4871/2791	7351	Aug 20 18:24 1997	./source/tcl/procPATTERN.tcl
rw-rw-r--	4871/2791	5709	Mar 5 10:29 1997	./source/tcl/runTUTORIAL.tcl
rw-rw-r--	4871/2791	837	Apr 24 19:47 1997	./source/tcl/procMUXTOOL.tcl
rw-rw-r--	4871/2791	1171	May 1 13:01 1997	./source/tcl/procAP.tcl
rw-rw-r--	4871/2791	3446	Mar 14 11:47 1997	./source/tcl/procPACKET.tcl
rw-rw-r--	4871/2791	2233	Feb 18 11:51 1997	./source/tcl/procFRAME.tcl
rw-rw-r--	4871/2791	1274	Oct 18 09:40 1996	./source/tcl/PopupFileSelect.tcl
rw-rw-r--	4871/2791	13279	Dec 17 15:39 1997	./source/tcl/procDATA.tcl
rw-rw-r--	4871/2791	2019	Nov 24 19:36 1996	./source/tcl/winDEVICE.tcl
rw-rw-r--	4871/2791	21073	Aug 19 17:32 1997	./source/tcl/procREGION.tcl
rw-rw-r--	4871/2791	3258	Dec 24 10:37 1997	./source/tcl/main.tcl
rw-rw-r--	4871/2791	3645	Apr 30 19:46 1997	./source/tcl/procMUXEDIT.tcl
rw-rw-r--	4871/2791	4579	Jul 17 16:14 1997	./source/tcl/procPDS.tcl
rw-rw-r--	4871/2791	4970	Apr 30 14:07 1997	./source/tcl/winFRAME.tcl
rw-rw-r--	4871/2791	0	Feb 3 11:18 1998	./source/tcl/VERSION1.2/
rw-rw-r--	4871/2791	30202	Aug 18 14:17 1997	./source/tcl/VERSION1.2/winSCRIPT.tcl
rw-rw-r--	4871/2791	20859	Aug 18 16:27 1997	./source/tcl/VERSION1.2/procREGION.tcl
rw-rw-r--	4871/2791	0	Feb 3 11:18 1998	./source/tcl/VERSION1.3/
rw-rw-r--	4871/2791	17892	Dec 15 19:56 1997	./source/tcl/VERSION1.3/procSCENARIO.tcl
rw-rw-r--	4871/2791	9874	Dec 15 20:33 1997	./source/tcl/VERSION1.3/procMUX.tcl
rw-r-----	4871/2791	1033	Dec 12 15:35 1997	./source/tcl/procHELPMMSG.tcl
rw-rw-r--	4871/2791	13392	Dec 15 21:05 1997	./source/tcl/procDATA.tcl.old
rw-rw-r--	4871/2791	4257	Dec 19 18:15 1997	./source/tcl/winHELP.tcl.old
rw-rw-r--	4871/2791	7016	Feb 11 17:14 1998	./source/tcl/winWARN.tcl
rw-rw-r--	4871/2791	0	Feb 23 10:28 1998	./script/
rw-rw-r--	4871/2791	0	Feb 3 11:18 1998	./script/TEST/
rw-rw-r--	4871/2791	7260	Apr 21 21:39 1997	./script/TEST/pds.tcl
rw-rw-r--	4871/2791	13501	Jul 22 15:22 1997	./script/TEST/eds_3apid.tcl
rw-rw-r--	4871/2791	20457	Mar 3 12:04 1997	./script/TEST/cadu.tcl
rw-rw-r--	4871/2791	7863	Feb 10 13:49 1998	./script/TEST/eds.tcl
rw-rw-r--	4871/2791	11254	Feb 20 19:41 1997	./script/TEST/tc.tcl
rw-rw-r--	4871/2791	14040	Feb 20 19:41 1997	./script/TEST/edu.tcl
rw-rw-r--	4871/2791	7051	Mar 7 13:26 1997	./script/TEST/rbp.tcl
rw-rw-r--	4871/2791	2341	Mar 7 15:09 1997	./script/.tcl
rw-rw-r--	4871/2791	6725	Jul 31 11:06 1997	./script/eds-1ap.tcl
rw-rw-r--	4871/2791	49920	Apr 30 12:03 1997	./script/cm1.tcl
rw-rw-r--	4871/2791	17812	Mar 11 12:53 1997	./script/test.tcl
rw-rw-r--	4871/2791	20211	Apr 28 21:29 1997	./script/cadu-err.tcl
rw-rw-r--	4871/2791	23084	Apr 9 17:39 1997	./script/cadu-64ap3vc.tcl
rw-rw-r--	4871/2791	8500	Apr 28 16:09 1997	./script/input.dat
rw-rw-r--	4871/2791	1164	Feb 23 10:28 1998	./script/eds.script
rw-r--r--	4871/2791	137	Aug 20 14:08 1997	./script/TMP.er
rw-rw-r--	4871/2791	23279	Apr 22 16:42 1997	./script/cadu-64ap10vc.tcl
rw-rw-r--	4871/2791	13315	Jul 31 10:51 1997	./script/eds-3ap.tcl
rw-rw-r--	4871/2791	11328	Apr 29 18:07 1997	./script/edu.tcl
rw-rw-r--	4871/2791	14598	Apr 24 15:58 1997	./script/edu-64ap.tcl
rw-r--r--	4871/2791	315	Feb 23 10:28 1998	./script/eds.er

rw-rw-r--	4871/2791	21141	Apr 29 11:47 1997	./script/cadu.tcl
rw-rw-r--	4871/2791	8073	Mar 7 13:18 1997	./script/rbp1.tcl
rw-rw-r--	4871/2791	1064	Jul 31 11:24 1997	./script/eds-1ap.script
rw-rw-r--	4871/2791	23139	Apr 11 16:05 1997	./script/cadu-64ap5vc.tcl
rw-rw-r--	4871/2791	8426	Jul 24 14:57 1997	./script/cadu-1ap.tcl
rw-rw-r--	4871/2791	1283	Aug 20 14:08 1997	./script/TMP.script
rw-rw-r--	4871/2791	6211	Aug 20 18:44 1997	./script/um-cadu.tcl
rw-rw-r--	4871/2791	1428	Aug 21 13:47 1997	./script/edu.script
rw-r--r--	4871/2791	368	Aug 21 13:47 1997	./script/edu.er
rw-rw-r--	4871/2791	978	Feb 6 10:02 1998	./script/rbp.script
rw-rw-r--	4871/2791	8960	Apr 29 18:08 1997	./script/rbp.tcl
rw-rw-r--	4871/2791	8661	Apr 29 18:04 1997	./script/tc.tcl
rw-rw-r--	4871/2791	8500	May 14 15:00 1997	./script/packet.dat
rw-r--r--	4871/2791	155	Feb 6 10:02 1998	./script/rbp.er
rw-rw-r--	4871/2791	2741	Nov 21 15:10 1997	./script/cadu.script
rw-r--r--	4871/2791	1883	Nov 21 15:10 1997	./script/cadu.er
rw-rw-r--	4871/2791	1018	Jul 31 11:30 1997	./script/pds-1ap.script
rw-rw-r--	4871/2791	5641	Jul 31 11:30 1997	./script/pds-1ap.tcl
rw-rw-r--	4871/2791	8654	Jul 29 09:13 1997	./script/cadu-varlen.tcl
rw-rw-r--	4871/2791	0	Jul 29 10:30 1997	./script/raw.dat
rw-rw-r--	4871/2791	8416	Jul 29 10:31 1997	./script/cadu-raw.tcl
rw-rw-r--	4871/2791	8425	Jul 29 11:07 1997	./script/cadu-vpkt.tcl
rw-rw-r--	4871/2791	21158	Nov 21 15:11 1997	./script/cadu.script.tcl
rw-rw-r--	4871/2791	1111	Feb 6 10:01 1998	./script/tc.script
rw-r--r--	4871/2791	304	Feb 6 10:01 1998	./script/tc.er
rw-rw-r--	4871/2791	0	Feb 6 10:01 1998	./script/tc.dat
rw-rw-r--	4871/2791	7863	Feb 10 13:47 1998	./script/eds.tcl
rw-rw-r--	4871/2791	0	Feb 23 10:47 1998	./bin/
rw-rw-r--	4871/2791	709	Feb 23 11:01 1998	./bin/run_sctgui
rw-rw-r--	4871/2791	524288	Jul 18 09:32 1997	./bin/sun.sctgen1.2
rw-rw-r--	4871/2791	458752	Jul 18 09:33 1997	./bin/sun.etsp1.2
rw-rw-r--	4871/2791	0	Feb 23 10:47 1998	./bin/sctgen Symbolic link to ./hp.sctgen1.3
rw-rw-r--	4871/2791	794624	Aug 4 15:54 1997	./bin/hp.etsp1.2
rw-rw-r--	4871/2791	920676	Aug 4 15:54 1997	./bin/hp.sctgen1.2
rw-rw-r--	4871/2791	722	Dec 19 15:14 1997	./bin/run_sctgui.ori
rw-rw-r--	4871/2791	1073152	Feb 16 11:33 1998	./bin/sun.sctgen1.3
rw-rw-r--	4871/2791	1118208	Feb 16 11:34 1998	./bin/hp.sctgen1.3
rw-rw-r--	4871/2791	118784	Aug 4 15:54 1997	./bin/hp.muxtool1.2
rw-rw-r--	4871/2791	114688	Aug 4 16:03 1997	./bin/sun.muxtool1.2
rw-rw-r--	4871/2791	114688	Feb 16 11:36 1998	./bin/hp.muxtool1.3
rw-rw-r--	4871/2791	114688	Feb 16 11:37 1998	./bin/sun.muxtool1.3
rw-rw-r--	4871/2791	0	Feb 3 11:18 1998	./data/
rw-rw-r--	4871/2791	0	Feb 3 11:18 1998	./doc/
rw-rw-r--	4871/2791	0	Feb 3 11:18 1998	./doc/help/
rw-r--r--	4871/2791	1770	Dec 24 11:12 1997	./doc/help/_cadu.doc
rw-rw-r--	4871/2791	1924	Dec 19 18:35 1997	./doc/help/HELP.help.1
rw-rw-r--	4871/2791	2422	Dec 24 11:35 1997	./doc/help/HELP.doc
rw-r--r--	4871/2791	3130	Dec 24 11:12 1997	./doc/help/_readme.doc
rw-r--r--	4871/2791	1217	Dec 24 11:12 1997	./doc/help/_tc.doc
rw-r--r--	4871/2791	2222	Dec 24 11:12 1997	./doc/help/_v1tf.doc
rw-r--r--	4871/2791	4794	Dec 24 11:12 1997	./doc/help/bitcode.doc
rw-r--r--	4871/2791	7278	Dec 24 11:12 1997	./doc/help/cadu.doc
rw-r--r--	4871/2791	1230	Dec 24 11:12 1997	./doc/help/cltu.doc
rw-r--r--	4871/2791	5106	Dec 24 11:12 1997	./doc/help/cmdblk.doc

rw-r--r--	4871/2791	2589	Dec 24 11:12 1997	./doc/help/depot.doc
rw-r--r--	4871/2791	1549	Dec 24 11:12 1997	./doc/help/device.doc
rw-r--r--	4871/2791	23	Dec 24 11:12 1997	./doc/help/eds.doc
rw-r--r--	4871/2791	4947	Dec 24 11:12 1997	./doc/help/edu.doc
rw-r--r--	4871/2791	5152	Dec 24 11:12 1997	./doc/help/error.doc
rw-r--r--	4871/2791	1279	Dec 24 11:12 1997	./doc/help/etsp.doc
rw-r--r--	4871/2791	6658	Dec 24 11:12 1997	./doc/help/event.doc
rw-r--r--	4871/2791	8927	Dec 24 11:12 1997	./doc/help/formats.doc
rw-r--r--	4871/2791	4385	Dec 24 11:12 1997	./doc/help/frame.doc
rw-r--r--	4871/2791	3627	Dec 24 11:12 1997	./doc/help/glossary.doc
rw-rw-r--	4871/2791	286	Dec 24 11:12 1997	./doc/help/help.doc
rw-r--r--	4871/2791	1978	Dec 24 11:12 1997	./doc/help/input.doc
rw-rw-r--	4871/2791	1705	Dec 24 11:12 1997	./doc/help/intro.doc
rw-r--r--	4871/2791	343	Dec 24 11:12 1997	./doc/help/main.doc
rw-r--r--	4871/2791	5638	Dec 24 11:12 1997	./doc/help/mux.doc
rw-r--r--	4871/2791	5581	Dec 24 11:12 1997	./doc/help/master.doc
rw-r--r--	4871/2791	1387	Dec 24 11:12 1997	./doc/help/muxtool.doc
rw-r--r--	4871/2791	13419	Dec 24 11:12 1997	./doc/help/output.doc
rw-r--r--	4871/2791	1610	Dec 24 11:12 1997	./doc/help/packet.doc
rw-r--r--	4871/2791	2487	Dec 24 11:12 1997	./doc/help/pb5.doc
rw-r--r--	4871/2791	3859	Dec 24 11:12 1997	./doc/help/pb5j.doc
rw-r--r--	4871/2791	12006	Dec 24 11:12 1997	./doc/help/pds.doc
rw-r--r--	4871/2791	1805	Dec 24 11:12 1997	./doc/help/physical.doc
rw-r--r--	4871/2791	3414	Dec 24 11:12 1997	./doc/help/pktrate.doc
rw-r--r--	4871/2791	1957	Dec 24 11:12 1997	./doc/help/pkctime.doc
rw-r--r--	4871/2791	292	Dec 24 11:12 1997	./doc/help/rbp.doc
rw-r--r--	4871/2791	2787	Dec 24 11:12 1997	./doc/help/record.doc
rw-r--r--	4871/2791	11226	Dec 24 11:12 1997	./doc/help/region.doc
rw-r--r--	4871/2791	2046	Dec 24 11:12 1997	./doc/help/sctgen.doc
rw-r--r--	4871/2791	962	Dec 24 11:12 1997	./doc/help/segpkt.doc
rw-r--r--	4871/2791	3160	Dec 24 11:12 1997	./doc/help/slip.doc
rw-r--r--	4871/2791	745	Dec 24 11:12 1997	./doc/help/sony.doc
rw-r--r--	4871/2791	2675	Dec 24 11:12 1997	./doc/help/stream.doc
rw-r--r--	4871/2791	3559	Dec 24 11:12 1997	./doc/help/syntax.doc
rw-r--r--	4871/2791	7522	Dec 24 11:12 1997	./doc/help/task.doc
rw-r--r--	4871/2791	2817	Dec 24 11:12 1997	./doc/help/tccuc.doc
rw-r--r--	4871/2791	2987	Dec 24 11:12 1997	./doc/help/tcdy.doc
rw-r--r--	4871/2791	1605	Dec 24 11:12 1997	./doc/help/tcphy.doc
rw-r--r--	4871/2791	1639	Dec 24 11:12 1997	./doc/help/tcseg.doc
rw-r--r--	4871/2791	2120	Dec 24 11:12 1997	./doc/help/tctf.doc
rw-r--r--	4871/2791	960	Dec 24 11:12 1997	./doc/help/time.doc
rw-r--r--	4871/2791	8190	Dec 24 11:12 1997	./doc/help/v1tf.doc
rw-rw-r--	4871/2791	2448	Dec 24 11:15 1997	./doc/help/HELP.help
rw-rw-r--	4871/2791	1842	Aug 7 14:16 1997	./doc/RELEASE.NOTES
rw-rw-r--	4871/2791	0	Feb 3 11:18 1998	./doc/help.old/
rw-rw-r--	4871/2791	0	Feb 3 11:18 1998	./doc/help.old/ETS/
rw-r--r--	4871/2791	1391	Aug 4 14:10 1997	./doc/help.old/ETS/_readme.doc
rw-r--r--	4871/2791	5106	Aug 4 14:10 1997	./doc/help.old/ETS/cmdblk.doc
rw-r--r--	4871/2791	23	Aug 4 14:10 1997	./doc/help.old/ETS/eds.doc
rw-r--r--	4871/2791	4947	Aug 4 14:10 1997	./doc/help.old/ETS/edu.doc
rw-r--r--	4871/2791	1279	Aug 4 14:10 1997	./doc/help.old/ETS/etsp.doc
rw-r--r--	4871/2791	1610	Aug 4 14:10 1997	./doc/help.old/ETS/packet.doc
rw-r--r--	4871/2791	2487	Aug 4 14:10 1997	./doc/help.old/ETS/pb5.doc
rw-r--r--	4871/2791	12006	Aug 4 14:10 1997	./doc/help.old/ETS/pds.doc

rw-r--r--	4871/2791	1957	Aug 4 14:10 1997	./doc/help.old/ETS/pkttime.doc
rw-r--r--	4871/2791	292	Aug 4 14:10 1997	./doc/help.old/ETS/rbp.doc
rw-r--r--	4871/2791	2046	Aug 4 14:10 1997	./doc/help.old/ETS/sctgen.doc
rw-r--r--	4871/2791	745	Aug 4 14:10 1997	./doc/help.old/ETS/sony.doc
rw-r--r--	4871/2791	4794	Apr 25 11:31 1997	./doc/help.old/bitcode.doc
rw-rw-r--	4871/2791	286	Oct 28 11:58 1996	./doc/help.old/help.doc
rw-rw-r--	4871/2791	856	Jan 20 00:48 1997	./doc/help.old/help.index.sav
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rw-r--r--	4871/2791	2817	Apr 25 11:31 1997	./doc/help.old/tccuc.doc
rw-r--r--	4871/2791	2987	Apr 25 11:31 1997	./doc/help.old/tcday.doc
rw-r--r--	4871/2791	1605	Aug 4 14:09 1997	./doc/help.old/tcphy.doc
rw-rw-r--	4871/2791	1705	Apr 29 15:59 1997	./doc/help.old/intro.doc
rw-rw-r--	4871/2791	1144	Apr 29 15:55 1997	./doc/help.old/help.index%
rw-rw-r--	4871/2791	221	Jan 20 00:35 1997	./doc/help.old/README
rw-r--r--	4871/2791	1770	Aug 4 14:08 1997	./doc/help.old/_cadu.doc
rw-r--r--	4871/2791	3130	Aug 4 14:08 1997	./doc/help.old/_readme.doc
rw-r--r--	4871/2791	1217	Aug 4 14:08 1997	./doc/help.old/_tc.doc
rw-r--r--	4871/2791	2222	Apr 25 11:31 1997	./doc/help.old/_v1tf.doc
rw-r--r--	4871/2791	7278	Aug 4 14:08 1997	./doc/help.old/cadu.doc
rw-r--r--	4871/2791	1230	Aug 4 14:08 1997	./doc/help.old/cltu.doc
rw-r--r--	4871/2791	2589	Aug 4 14:08 1997	./doc/help.old/depot.doc
rw-r--r--	4871/2791	1549	Aug 4 14:08 1997	./doc/help.old/device.doc
rw-r--r--	4871/2791	5152	Aug 4 14:08 1997	./doc/help.old/error.doc
rw-r--r--	4871/2791	6658	Aug 4 14:08 1997	./doc/help.old/event.doc
rw-r--r--	4871/2791	8927	Aug 4 14:08 1997	./doc/help.old/formats.doc
rw-r--r--	4871/2791	4385	Apr 25 11:31 1997	./doc/help.old/frame.doc
rw-r--r--	4871/2791	3627	Aug 4 14:08 1997	./doc/help.old/glossary.doc
rw-r--r--	4871/2791	5638	Aug 4 14:08 1997	./doc/help.old/mux.doc
rw-r--r--	4871/2791	343	Aug 4 14:08 1997	./doc/help.old/main.doc
rw-r--r--	4871/2791	5581	Apr 25 11:31 1997	./doc/help.old/master.doc
rw-r--r--	4871/2791	1387	Aug 4 14:09 1997	./doc/help.old/muxtool.doc
rw-r--r--	4871/2791	13419	Aug 4 14:09 1997	./doc/help.old/output.doc
rw-r--r--	4871/2791	1610	Aug 4 14:10 1997	./doc/help.old/packet.doc
rw-r--r--	4871/2791	1805	Oct 25 17:40 1996	./doc/help.old/physical.doc
rw-r--r--	4871/2791	3414	Apr 25 11:31 1997	./doc/help.old/pktcrate.doc
rw-r--r--	4871/2791	2787	Aug 4 14:09 1997	./doc/help.old/record.doc
rw-r--r--	4871/2791	11226	Aug 4 14:09 1997	./doc/help.old/region.doc
rw-r--r--	4871/2791	962	Apr 25 11:31 1997	./doc/help.old/segpkt.doc
rw-r--r--	4871/2791	2675	Aug 4 14:09 1997	./doc/help.old/stream.doc
rw-r--r--	4871/2791	3559	Aug 4 14:09 1997	./doc/help.old/syntax.doc
rw-r--r--	4871/2791	7522	Aug 4 14:09 1997	./doc/help.old/task.doc
rw-r--r--	4871/2791	1639	Apr 25 11:31 1997	./doc/help.old/tcseg.doc
rw-r--r--	4871/2791	2120	Aug 4 14:09 1997	./doc/help.old/tctf.doc
rw-r--r--	4871/2791	960	Aug 4 14:09 1997	./doc/help.old/time.doc
rw-r--r--	4871/2791	8190	Apr 25 11:31 1997	./doc/help.old/v1tf.doc
rw-r--r--	4871/2791	5106	Aug 4 14:10 1997	./doc/help.old/cmdblk.doc
rw-r--r--	4871/2791	23	Aug 4 14:10 1997	./doc/help.old/eds.doc
rw-r--r--	4871/2791	4947	Aug 4 14:10 1997	./doc/help.old/edu.doc
rw-r--r--	4871/2791	1279	Aug 4 14:10 1997	./doc/help.old/etsp.doc
rw-r--r--	4871/2791	2487	Aug 4 14:10 1997	./doc/help.old/pb5.doc
rw-r--r--	4871/2791	12006	Aug 4 14:10 1997	./doc/help.old/pds.doc
rw-r--r--	4871/2791	1957	Aug 4 14:10 1997	./doc/help.old/pkttime.doc
rw-r--r--	4871/2791	292	Aug 4 14:10 1997	./doc/help.old/rbp.doc
rw-r--r--	4871/2791	2046	Aug 4 14:10 1997	./doc/help.old/sctgen.doc

rw-r--r--	4871/2791	745	Aug 4 14:10 1997	./doc/help.old/sony.doc
rw-r--r--	4871/2791	1978	Aug 4 14:08 1997	./doc/help.old/input.doc
rw-r--r--	4871/2791	3160	Aug 4 14:09 1997	./doc/help.old/slip.doc
rw-rw-r--	4871/2791	1096	Apr 29 15:44 1997	./doc/help.old/help.index.old
rw-rw-r--	4871/2791	1144	Apr 29 15:55 1997	./doc/help.old/help.index

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CI 5.2

rwxf-sr-x	209/23	0	Feb 3 17:50 1998	./
rw-r--r--	209/23	2150	Feb 3 17:32 1998	./BUILD.ME
rwxf-sr-x	209/23	0	Feb 5 18:07 1998	./bin/
rwxf-xr-x	209/23	114688	Jan 30 23:57 1998	./bin/muxtool
rwxf-xr-x	209/23	1073152	Feb 5 18:06 1998	./bin/sctgen
rwxf-xr-x	209/23	7348	Jan 30 23:57 1998	./bin/merlin
rwxf-sr-x	209/23	0	Feb 3 18:01 1998	./h/
r--r--r--	209/23	1107	Jan 30 23:57 1998	./h/CCSDS.hh
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r--r--r--	209/23	1687	Jan 30 23:57 1998	./h/TigApplied.hh
r--r--r--	209/23	1189	Jan 30 23:57 1998	./h/TigArgIterator.hh
r--r--r--	209/23	2806	Jan 30 23:57 1998	./h/TigArray.hh
r--r--r--	209/23	3476	Jan 30 23:57 1998	./h/TigConsumerPattern.hh
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r--r--r--	209/23	1549	Jan 30 23:57 1998	./h/TigDevFactory.hh
r--r--r--	209/23	1425	Jan 30 23:57 1998	./h/TigDevice.hh
r--r--r--	209/23	936	Jan 30 23:57 1998	./h/TigDrop.hh
r--r--r--	209/23	1447	Jan 30 23:57 1998	./h/TigErrList.hh
r--r--r--	209/23	2237	Jan 30 23:57 1998	./h/TigEvent.hh
r--r--r--	209/23	1956	Jan 30 23:57 1998	./h/TigEvtRegistry.hh
r--r--r--	209/23	852	Jan 30 23:57 1998	./h/TigException.hh
r--r--r--	209/23	2425	Jan 30 23:57 1998	./h/TigFailScript.hh
r--r--r--	209/23	1210	Jan 30 23:57 1998	./h/TigHistory.hh
r--r--r--	209/23	1880	Jan 30 23:57 1998	./h/TigLib.hh
r--r--r--	209/23	2568	Jan 30 23:57 1998	./h/TigListPatterns.hh
r--r--r--	209/23	1386	Jan 30 23:57 1998	./h/TigMain.hh
r--r--r--	209/23	2629	Jan 30 23:57 1998	./h/TigMill.hh
r--r--r--	209/23	773	Jan 30 23:57 1998	./h/TigOFactory.hh
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r--r--r--	209/23	1900	Jan 30 23:57 1998	./h/TigOut.hh
r--r--r--	209/23	1800	Jan 30 23:57 1998	./h/TigPatFactory.hh
r--r--r--	209/23	961	Jan 30 23:57 1998	./h/TigPath.hh
r--r--r--	209/23	4345	Jan 30 23:57 1998	./h/TigPattern.hh
r--r--r--	209/23	1801	Jan 30 23:57 1998	./h/TigPipe.hh
r--r--r--	209/23	2362	Jan 30 23:57 1998	./h/TigProducer.hh
r--r--r--	209/23	3317	Jan 30 23:57 1998	./h/TigRegion.hh
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r--r--r--	209/23	7136	Jan 30 23:57 1998	./h/TigScript.hh
r--r--r--	209/23	3490	Jan 30 23:57 1998	./h/TigSequenceNumber.hh
r--r--r--	209/23	775	Jan 30 23:57 1998	./h/TigStrFactory.hh
r--r--r--	209/23	2253	Jan 30 23:57 1998	./h/TigStream.hh
r--r--r--	209/23	1824	Jan 30 23:57 1998	./h/TigTaskList.hh
r--r--r--	209/23	2458	Jan 30 23:57 1998	./h/TigTime.hh
r--r--r--	209/23	6714	Jan 30 23:57 1998	./h/TigUnit.hh
r--r--r--	209/23	365	Jan 30 23:57 1998	./h/TigVersion.hh

r--r--r--	209/23	1199	Jan 30 23:57 1998	./h/Tiger.hh
r--r--r--	209/23	220	Jan 30 23:57 1998	./h/defines.hh
r--r--r--	209/23	368	Jan 30 23:57 1998	./h/required.hh
r--r--r--	209/23	4207	Jan 30 23:57 1998	./h/string.hh
rw-r--r--	209/23	2215	Feb 3 17:49 1998	./release.v13
rwxf-sr-x	209/23	0	Feb 3 17:16 1998	./lib/
rw-r--r--	209/23	63978	Feb 3 17:16 1998	./lib/libtrs.a
rw-r--r--	209/23	1231356	Jan 31 00:27 1998	./lib/libtiger.a
rwxf-sr-x	209/23	0	Feb 6 11:42 1998	./src/
rw-r--r--	209/23	5187	Jan 31 00:12 1998	./src/DS_2Output.cpp
rw-r--r--	209/23	1325	Jan 31 00:12 1998	./src/DS_Ident.cpp
rw-r--r--	209/23	596	Jan 31 00:12 1998	./src/DS_Ident.hh
rw-r--r--	209/23	8814	Jan 31 00:12 1998	./src/DS_Output.cpp
rw-r--r--	209/23	2782	Jan 31 00:12 1998	./src/DS_Output.hh
rw-r--r--	209/23	1624	Jan 31 00:12 1998	./src/EDOS_Time.cpp
rw-r--r--	209/23	1416	Jan 31 00:12 1998	./src/EDOS_Timecode.hh
rw-r--r--	209/23	766	Jan 31 00:12 1998	./src/EDOS_gmh.cpp
rw-r--r--	209/23	602	Jan 31 00:12 1998	./src/EDOS_gmh.hh
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rw-r--r--	209/23	750	Jan 31 00:12 1998	./src/EDU_PktStream.hh
rw-r--r--	209/23	4036	Jan 31 00:12 1998	./src/ESH.cpp
rw-r--r--	209/23	1065	Jan 31 00:12 1998	./src/ESH.hh
rw-r--r--	209/23	345	Jan 31 00:12 1998	./src/ETS_Version.hh
rw-r--r--	209/23	2029	Jan 31 00:12 1998	./src/Fill.cpp
rw-r--r--	209/23	1149	Jan 31 00:12 1998	./src/Fill.hh
rw-r--r--	209/23	1798	Jan 31 00:12 1998	./src/Gap.cpp
rw-r--r--	209/23	1047	Jan 31 00:12 1998	./src/Gap.hh
rw-r--r--	209/23	708	Jan 31 00:12 1998	./src/Packet.cpp
rw-r--r--	209/23	1037	Jan 31 00:12 1998	./src/Packet.hh
rw-r--r--	209/23	2681	Jan 31 00:12 1998	./src/RBP_Output.cpp
rw-r--r--	209/23	1139	Jan 31 00:12 1998	./src/RBP_Output.hh
rw-r--r--	209/23	2963	Jan 31 00:12 1998	./src/SonyTape.cpp
rw-r--r--	209/23	1095	Jan 31 00:12 1998	./src/SonyTape.hh
rw-r--r--	209/23	2344	Jan 31 00:12 1998	./src/WrongLength.cpp
rw-r--r--	209/23	864	Jan 31 00:12 1998	./src/WrongLength.hh
rw-r--r--	209/23	867	Jan 31 00:12 1998	./src/Xlong.cpp
rw-r--r--	209/23	1026	Jan 31 00:12 1998	./src/Xlong.hh
rw-r--r--	209/23	1520	Jan 31 00:12 1998	./src/cmdblock.cpp
rw-r--r--	209/23	710	Jan 31 00:12 1998	./src/cmdblock.hh
rw-r--r--	209/23	1017	Jan 31 00:12 1998	./src/elong.bat
rw-r--r--	209/23	1149	Jan 31 00:12 1998	./src/eshort.bat
rw-r--r--	209/23	2145	Jan 31 00:12 1998	./src/pb5.cpp
rw-r--r--	209/23	1641	Jan 31 00:12 1998	./src/pb5.hh
r--r--r--	209/23	840	Feb 5 18:05 1998	./src/sctgen.bld
rw-r--r--	209/23	2148	Jan 31 00:12 1998	./src/sctgen.cpp
rw-r--r--	209/23	762	Jan 31 00:12 1998	./src/sctgen.hh
rw-r--r--	209/23	872	Jan 30 23:58 1998	./tapeinfo.txt
rwxf-sr-x	209/23	0	Jan 30 23:58 1998	./test/
rw-r--r--	209/23	299900	Jan 30 23:58 1998	./test/pktmix.dat
r--r--r--	209/23	1527	Jan 30 23:58 1998	./test/eds.script
rw-r--r--	209/23	912	Jan 30 23:58 1998	./test/pdsf.script
r--r--r--	209/23	1483	Jan 30 23:58 1998	./test/pds.script
rw-r--r--	209/23	1947	Jan 30 23:58 1998	./test/cadu1.script
rw-r--r--	209/23	1891	Jan 30 23:58 1998	./test/cadu5.script

rwxf-sr-x	209/23	0	Feb 5 18:07 1998	./work/
rwxf-sr-x	209/23	0	Feb 5 18:05 1998	./work/reposit/
rw-r--r--	209/23	6091	Jan 31 00:42 1998	./work/reposit/defmap
rw-r--r--	209/23	5862	Jan 31 00:41 1998	./work/reposit/defmap.old
rw-r--r--	209/23	0	Jan 31 00:40 1998	./work/reposit/_lock
rw-r--r--	209/23	32	Feb 5 18:05 1998	./work/reposit/p22c27b5.bc
rw-r--r--	209/23	2680	Jan 31 00:41 1998	./work/reposit/p22c27b5.bc
rw-r--r--	209/23	112	Jan 31 00:41 1998	./work/reposit/p22c27b5.cxx
rw-r--r--	209/23	2428	Jan 31 00:41 1998	./work/reposit/p22c27b5.o
rw-r--r--	209/23	7	Jan 31 00:41 1998	./work/reposit/p22c27b5.cs
rw-r--r--	209/23	33	Feb 5 18:05 1998	./work/reposit/p490e6db.bc
rw-r--r--	209/23	2297	Jan 31 00:41 1998	./work/reposit/p490e6db.bc
rw-r--r--	209/23	115	Jan 31 00:41 1998	./work/reposit/p490e6db.cxx
rw-r--r--	209/23	1516	Jan 31 00:41 1998	./work/reposit/p490e6db.o
rw-r--r--	209/23	7	Jan 31 00:41 1998	./work/reposit/p490e6db.cs
rw-r--r--	209/23	25	Feb 5 18:05 1998	./work/reposit/p1bc5faa.bc
rw-r--r--	209/23	3338	Jan 31 00:41 1998	./work/reposit/p1bc5faa.bc
rw-r--r--	209/23	109	Jan 31 00:41 1998	./work/reposit/p1bc5faa.cxx
rw-r--r--	209/23	2804	Jan 31 00:42 1998	./work/reposit/p1bc5faa.o
rw-r--r--	209/23	7	Jan 31 00:42 1998	./work/reposit/p1bc5faa.cs
rw-r--r--	209/23	109	Feb 5 18:05 1998	./work/reposit/_instfile
rw-r--r--	209/23	7486	Jan 31 00:33 1998	./work/sctgen.inf
rw-r--r--	209/23	3865	Jan 31 00:33 1998	./work/ESH.inf
rw-r--r--	209/23	398	Jan 31 00:31 1998	./work/products.bld
rw-r--r--	209/23	4004	Jan 31 00:33 1998	./work/cmdblock.inf
rw-r--r--	209/23	2521	Jan 31 00:33 1998	./work/DS_Ident.inf
rw-r--r--	209/23	3662	Jan 31 00:33 1998	./work/EDOS_Time.inf
rw-r--r--	209/23	2514	Jan 31 00:33 1998	./work/EDOS_gmh.inf
rw-r--r--	209/23	4230	Jan 31 00:33 1998	./work/DS_2Output.inf
rw-r--r--	209/23	5046	Jan 31 00:33 1998	./work/DS_Output.inf
rw-r--r--	209/23	3615	Jan 31 00:33 1998	./work/EDU_PktStr.inf
rw-r--r--	209/23	3748	Jan 31 00:33 1998	./work/Fill.inf
rw-r--r--	209/23	2679	Jan 31 00:33 1998	./work/Gap.inf
rw-r--r--	209/23	2564	Jan 31 00:33 1998	./work/pb5.inf
rw-r--r--	209/23	2141	Jan 31 00:33 1998	./work/Packet.inf
rw-r--r--	209/23	3475	Jan 31 00:33 1998	./work/RBP_Output.inf
rw-r--r--	209/23	2953	Jan 31 00:33 1998	./work/SonyTape.inf
rw-r--r--	209/23	2523	Jan 31 00:33 1998	./work/WrongLength.inf
rw-r--r--	209/23	56	Jan 31 00:31 1998	./work/Xlong.inf
rw-r--r--	209/23	13588	Jan 31 00:34 1998	./work/sctgen.o
rw-r--r--	209/23	4744	Jan 31 00:35 1998	./work/cmdblock.o
rw-r--r--	209/23	3600	Jan 31 00:35 1998	./work/DS_Ident.o
rw-r--r--	209/23	7936	Jan 31 00:35 1998	./work/EDOS_Time.o
rw-r--r--	209/23	2060	Jan 31 00:36 1998	./work/EDOS_gmh.o
rw-r--r--	209/23	5700	Jan 31 00:36 1998	./work/DS_2Output.o
rw-r--r--	209/23	20384	Jan 31 00:37 1998	./work/DS_Output.o
rw-r--r--	209/23	4964	Jan 31 00:37 1998	./work/EDU_PktStr.o
rw-r--r--	209/23	9308	Jan 31 00:38 1998	./work/ESH.o
rw-r--r--	209/23	7456	Jan 31 00:38 1998	./work/Fill.o
rw-r--r--	209/23	3068	Jan 31 00:39 1998	./work/Gap.o
rw-r--r--	209/23	4624	Jan 31 00:39 1998	./work/pb5.o
rw-r--r--	209/23	1544	Jan 31 00:39 1998	./work/Packet.o
rw-r--r--	209/23	6832	Jan 31 00:40 1998	./work/RBP_Output.o
rw-r--r--	209/23	8944	Jan 31 00:40 1998	./work/SonyTape.o

rw-r--r--	209/23	3348	Jan 31 00:40 1998	./work/WrongLength.o
rw-r--r--	209/23	384	Jan 31 00:40 1998	./work/Xlong.o
rwxf-sr-x	209/23	0	Jan 30 23:57 1998	./docs/
r-xr-sr-x	209/23	0	Jan 30 23:57 1998	./docs/library/
r--r--r--	209/23	2120	Jan 30 23:57 1998	./docs/library/tctf.doc
r--r--r--	209/23	2675	Jan 30 23:57 1998	./docs/library/stream.doc
r--r--r--	209/23	6513	Jan 30 23:57 1998	./docs/library/packet.doc
r--r--r--	209/23	343	Jan 30 23:57 1998	./docs/library/main.doc
r--r--r--	209/23	6658	Jan 30 23:57 1998	./docs/library/event.doc
r--r--r--	209/23	1230	Jan 30 23:57 1998	./docs/library/cltu.doc
r--r--r--	209/23	1605	Jan 30 23:57 1998	./docs/library/tcpdy.doc
r--r--r--	209/23	3160	Jan 30 23:57 1998	./docs/library/slip.doc
r--r--r--	209/23	13419	Jan 30 23:57 1998	./docs/library/output.doc
r--r--r--	209/23	1978	Jan 30 23:57 1998	./docs/library/input.doc
r--r--r--	209/23	5152	Jan 30 23:57 1998	./docs/library/error.doc
r--r--r--	209/23	7278	Jan 30 23:57 1998	./docs/library/cadu.doc
r--r--r--	209/23	960	Jan 30 23:57 1998	./docs/library/time.doc
r--r--r--	209/23	7522	Jan 30 23:57 1998	./docs/library/task.doc
r--r--r--	209/23	11228	Jan 30 23:57 1998	./docs/library/region.doc
r--r--r--	209/23	1387	Jan 30 23:57 1998	./docs/library/muxtool.doc
r--r--r--	209/23	3627	Jan 30 23:57 1998	./docs/library/glossary.doc
r--r--r--	209/23	1549	Jan 30 23:57 1998	./docs/library/device.doc
r--r--r--	209/23	1217	Jan 30 23:57 1998	./docs/library/_tc.doc
r--r--r--	209/23	3559	Jan 30 23:57 1998	./docs/library/syntax.doc
r--r--r--	209/23	2787	Jan 30 23:57 1998	./docs/library/record.doc
r--r--r--	209/23	5638	Jan 30 23:57 1998	./docs/library/mux.doc
r--r--r--	209/23	8927	Jan 30 23:57 1998	./docs/library/formats.doc
r--r--r--	209/23	2589	Jan 30 23:57 1998	./docs/library/depot.doc
r--r--r--	209/23	3130	Jan 30 23:57 1998	./docs/library/_readme.doc
r--r--r--	209/23	1770	Jan 30 23:57 1998	./docs/library/_cadu.doc
r--r--r--	209/23	2046	Jan 30 23:57 1998	./docs/sctgen.doc
r--r--r--	209/23	2487	Jan 30 23:57 1998	./docs/pb5.doc
r--r--r--	209/23	23	Jan 30 23:57 1998	./docs/eds.doc
r--r--r--	209/23	292	Jan 30 23:57 1998	./docs/rbp.doc
r--r--r--	209/23	1610	Jan 30 23:57 1998	./docs/packet.doc
r--r--r--	209/23	5106	Jan 30 23:57 1998	./docs/cmdblk.doc
r--r--r--	209/23	1957	Jan 30 23:57 1998	./docs/pktime.doc
r--r--r--	209/23	1279	Jan 30 23:57 1998	./docs/etsp.doc
r--r--r--	209/23	1391	Jan 30 23:57 1998	./docs/_readme.doc
r--r--r--	209/23	745	Jan 30 23:57 1998	./docs/sony.doc
rw-r--r--	209/23	11983	Jan 30 23:57 1998	./docs/pds.doc
r--r--r--	209/23	4947	Jan 30 23:57 1998	./docs/edu.doc
rwxf-sr-x	209/23	0	Jan 30 23:57 1998	./hp_version/
rwxf-sr-x	209/23	0	Feb 3 17:26 1998	./hp_version/bin/
rw-r--r--	209/23	1118208	Feb 3 17:26 1998	./hp_version/bin/sctgen
rw-r--r--	209/23	114688	Feb 3 17:26 1998	./hp_version/bin/muxtool
rw-r--r--	209/23	962560	Feb 3 17:26 1998	./hp_version/bin/tccsds
rwxf-sr-x	209/23	0	Feb 3 17:26 1998	./hp_version/work/
rw-r--r--	209/23	503	Feb 3 17:26 1998	./hp_version/work/bETS.cmd
rw-r--r--	209/23	130492	Feb 3 17:26 1998	./hp_version/work/libETS.a
rw-r--r--	209/23	988	Feb 3 17:26 1998	./hp_version/work/buildTiger
rw-r--r--	209/23	1482600	Feb 3 17:26 1998	./hp_version/work/libtiger.a
rw-r--r--	209/23	68464	Feb 3 17:26 1998	./hp_version/work/libtrs.a

**Attachment K - ETS Documentation References**

The same documentation references apply as for SCTGEN Release 1.0 Delivery Package.

**Attachment L - Mission Systems Configuration Management Form**

This attachment contains the completed Mission Systems Configuration Management (MSCM) form.

**Mission Systems Configuration Management Form**

<u>1. ORIGINATOR</u> Thanos Voudouris	<u>2. ORGANIZATION</u> CNMOS	<u>3. PHONE</u> (301) 286-4557	<u>4. E-MAIL ADDRESS</u> thanos@vdragon.gsfc.nasa.gov		
<u>5. ELEMENT</u> Other =====> SCTGEN		<u>6. INSTALLATION PRIORITY</u> Routine	<u>7. TRACKING NUMBER</u> (Assigned by CM Office)		
<u>8. SOURCE CHANGE REQUEST(S):</u> ETS DRB approved SCTGEN release for SMO DR closure.		<u>9. APPROVALS</u> Element Manager _____ / / Flight Ops Director _____ / / Operations Manager _____ / /			
<u>10. DELIVERED SYSTEM</u> (Check all that apply)					
	Name	Version	Media Identification	Identification Date	
<input type="checkbox"/>	Hardware	_____	_____	_____	
<input checked="" type="checkbox"/>	Software	<u>SCTGEN</u>	<u>R1.3.0</u>	<u>4 mm DAT</u>	<u>2/27/98</u>
<input type="checkbox"/>	Database	_____	_____	_____	
<input checked="" type="checkbox"/>	Documentation:				
	<u>Delivery Package</u>	<u>n/a</u>	<u>3.5" Diskette</u>	<u>2/27/98</u>	
_____	_____	_____	_____	_____	
_____	_____	_____	_____	_____	
<input type="checkbox"/>	Other	_____	_____	_____	
<u>11. CHANGE DESCRIPTION</u> <u>SCTGEN Release 1.3.0 closes six (6) SMO DRs identified in the attached delivery package.</u> _____ _____ _____					
<u>12. ATTACHMENT(S):</u> Check if YES <input checked="" type="checkbox"/> Description: <u>SCTGEN Release 1.3.0 delivery package (cover letter with attachments) dated 2/27/98</u> _____ _____					
<u>13. CM OFFICE USE</u>					
	Location (Bldg/Room)	Slot location(s)			
Hardware	_____ / _____	_____			
Media	_____ / _____	_____			
Documentation	_____ / _____	_____			
Installation date	_____ / _____ / _____	CM Office Signature _____			